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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,827	04/13/2006	Victor de Lorenzo Prieto	020884.1	8039
	7590 03/25/200 N ALLEN PLLC	EXAMINER		
P.O. BOX 1370	6	GANGLE, BRIAN J		
Research Triangle Park, NC 27709			ART UNIT	PAPER NUMBER
			1645	
			MAIL DATE	DELIVERY MODE
			03/25/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## DISSON STREET DELORENZO PRIETO ET AL.		Application No.	Applicant(s)					
Brian J. Gangle The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER. FROM THE MAILING DATE OF THIS COMMUNICATION	Office Action Occurrence	10/566,827	DE LORENZO PRIETO ET AL.					
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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1, 3-4, 8, 12, 15, 22, 28, 31, 35, 47, 51-55, and 57, drawn to DNA constructs, vectors and bacteria comprising said construct wherein said construct comprises a first nucleic acid sequence coding for a product of interest, a second nucleic acid sequence coding for a dimerization domain, and a third nucleic acid sequence coding for *E. coli* HlyA.

Group II, claim(s) 38-42, 49, 56, and 58-59, drawn to a dimeric fusion protein obtainable by expression of a DNA construct comprising a first nucleic acid sequence coding for a product of interest, a second nucleic acid sequence coding for a dimerization domain, and a third nucleic acid sequence coding for *E. coli* HlyA.

Group III, claim(s) 44-45, drawn to a method for producing a product of interest in the form of a dimeric fusion protein obtainable by expression of a DNA construct comprising a first nucleic acid sequence coding for a product of interest, a second nucleic acid sequence coding for a dimerization domain, and a third nucleic acid sequence coding for *E. coli* HlyA.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The technical feature linking inventions I-III appears to be a DNA construct comprising a first nucleic acid sequence coding for a product of interest, a second nucleic acid sequence coding for a dimerization domain, and a third nucleic acid sequence coding for *E. coli* HlyA.

However, Fernandez *et al.* (Appl. Environ. Microbiol., 66:5024-5029, 2000) disclose a DNA construct comprising an *E. coli* HlyA secretion protein fused to an scFv antibody.

Pack *et al.* (Biochem., 31:1579-1584, 1992) disclose miniantibodies, which are dimeric scFvs that contain a dimerization domain (see abstract). The addition of the dimerization domain (a leucine zipper) allows for the creation of bivalent fragments which have increased avidity (page 1579, column 2).

It would have been obvious to one of ordinary skill in the art, at the time of invention, to add a dimerization domain, as disclosed by Pack *et al.* to the scFv antibody/HlyA fusion of Fernandez *et al.*, because Pack *et al.* teach that the addition of a leucine zipper to dimerize the scFv antibodies allows for the creation of bivalent fragments which have increased avidity.

Therefore, the technical feature linking the inventions of Groups I-III does not constitute a special technical feature as defined by PCT Rule 13.2, as it does not define a contribution over the art.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. <u>All</u> claims directed to a nonelected

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process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained.

Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Gangle whose telephone number is (571)272-1181. The examiner can normally be reached on M-F 7-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Mondesi can be reached on 571-272-0956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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